

Lucile Dezerald

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

269
citations

1163117

8
h-index

1372567

10
g-index

10
all docs

10
docs citations

10
times ranked

273
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Plastic anisotropy and dislocation trajectory in BCC metals. Nature Communications, 2016, 7, 11695. | 12.8 | 119 |
| 2 | Stability of self-interstitial clusters with C15 Laves phase structure in iron. Journal of Nuclear Materials, 2014, 449, 219-224. | 2.7 | 35 |
| 3 | Non-glide effects and dislocation core fields in BCC metals. Npj Computational Materials, 2019, 5, . | 8.7 | 31 |
| 4 | Cement As a Waste Form for Nuclear Fission Products: The Case of ⁹⁰ Sr and Its Daughters. Environmental Science & Technology, 2015, 49, 13676-13683. | 10.0 | 19 |
| 5 | Electronic Structure Calculations of Oxygen Atom Transport Energetics in the Presence of Screw Dislocations in Tungsten. Metals, 2019, 9, 252. | 2.3 | 17 |
| 6 | Simulating the mechanisms of serrated flow in interstitial alloys with atomic resolution over diffusive timescales. Nature Communications, 2020, 11, 1227. | 12.8 | 16 |
| 7 | Production of H ₂ by water radiolysis in cement paste under electron irradiation: A joint experimental and theoretical study. Cement and Concrete Research, 2017, 100, 110-118. | 11.0 | 13 |
| 8 | Ab initio informed yield criterion across body-centered cubic transition metals. Acta Materialia, 2022, 236, 118098. | 7.9 | 9 |
| 9 | Screw dislocations in BCC transition metals: from ab initio modeling to yield criterion. Comptes Rendus Physique, 2021, 22, 83-116. | 0.9 | 7 |
| 10 | Using first-principles calculations to predict the mechanical properties of transmuted tungsten under first wall fusion power-plant conditions. Journal of Physics Condensed Matter, 2021, 33, 345901. | 1.8 | 3 |